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In this paper the author starts with the differential system $(d^2\phi/dr^2) - V(r)\phi + 2\phi = 0$, $\phi(0;\lambda) = 1$, $\phi^1(0;\lambda) = h$, where $(0 \leq r < r_\infty)$, h is a real number, $V(r)$ is a real continuous function on $(0, r_\infty)$ and λ is a complex parameter. Then for a polynomial in λ which is non-negative on the spectrum of this system he develops an associated system and obtains formulas for the solutions and the spectral function of the associated system in terms of the solutions and spectral function of the given system. Also considered is the problem of determining potentials $V(r)$ of a given form when the spectral function is given. (Author) (Mathematics, TT, v. 5, no. 7)

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sures up to 1100 kg/sq cm. The shape of the solubility
curve of the substance in the compressed gas is dis-
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DESCRIPTORS: *Acetic acids, *Butane, Phase studies,
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